

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051686 A1

(51) International Patent Classification⁷: **B60C 007/24, 007/28**

[AU/AU]; 106 Williams Road, Nedlands, Western Australia 6009 (AU).

(21) International Application Number:
PCT/AU2004/001678

(74) Agent: WRAY & ASSOCIATES; Level 4, The Quadrant, 1 William Street, Perth, Western Australia 6000 (AU).

(22) International Filing Date:
29 November 2004 (29.11.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003906594 28 November 2003 (28.11.2003) AU

(71) Applicant (for all designated States except US): **CROCODILE CORPORATION LTD [AU/AU]**; Level 3, 28 Kings Park Road, West Perth, Western Australia 6005 (AU).

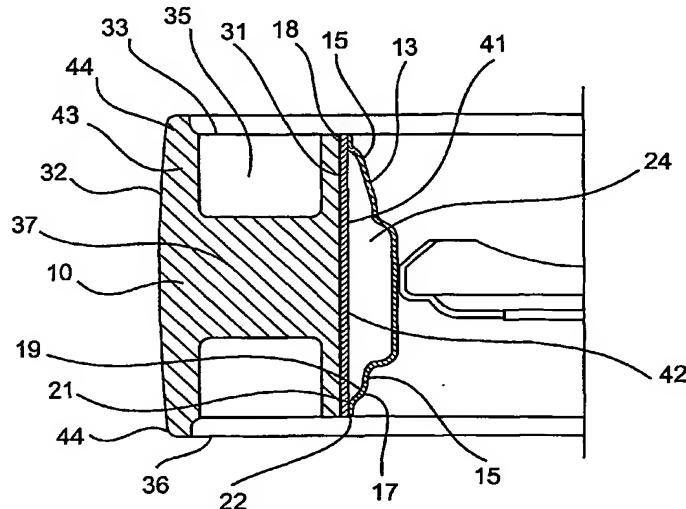
(72) Inventor; and

(75) Inventor/Applicant (for US only): **BURNS, Alan, Robert**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: TYRE



WO 2005/051686 A1

(57) Abstract: A tyre (10) adapted to be fitted onto a conventional wheel rim (13) for pneumatic tyres, the rim (13) has a tyre support surface (15), bead seats (17), each bead seat (17) comprises an inner seat portion (19) and an outer seat portion (21) terminating in an arcuate portion (22) defining the outer periphery of the rim (13), the tyre (10) comprises a radially inner portion (31) engageable with the rim (13), the radially inner portion comprising a band (41), the band comprises a metal band adapted to be supportingly received on, and releasably fixed with respect to the outer periphery of the rim (13) by welding at circumferentially spaced intervals, the tyre (10) further comprises a cushioning structure (33), the cushioning structure (33) comprises a resiliently deformable body of appropriate material such as rubber, bonded onto the band (41), the band (41) provides a rigid base for supporting the resiliently deformable body (43).



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*